

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244430

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20950 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1967.0 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

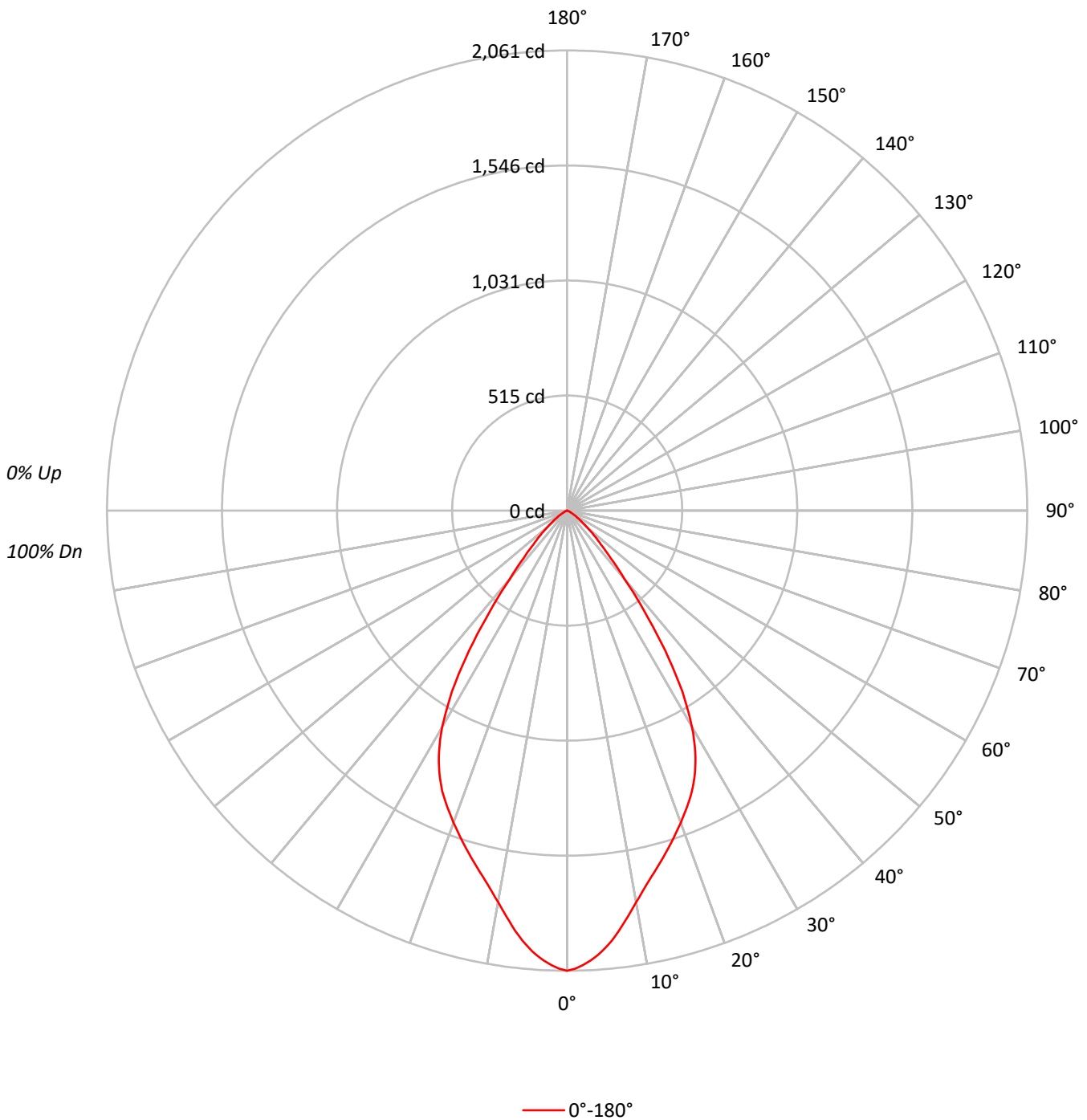
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	63560
5°	60862
10°	55770
15°	51893
20°	48810
25°	45664
30°	39826
35°	28783
40°	16138
45°	9284
50°	5680
55°	3236
60°	1684
65°	854
70°	469
75°	274
80°	160
85°	177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.5	9.2
10°-20°	457.0	23.2
20°-30°	609.7	31.0
30°-40°	470.0	23.9
40°-50°	175.2	8.9
50°-60°	57.3	2.9
60°-70°	13.2	0.7
70°-80°	2.6	0.1
80°-90°	0.4	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1248.2	63.5
0°-40°	1718.2	87.4
0°-60°	1950.8	99.2
0°-90°	1967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2061	
5°	1966	182
15°	1626	457
25°	1342	610
35°	765	470
45°	213	175
55°	60	57
65°	12	13
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2061.2
1°	2052.2
2°	2037.2
3°	2017.9
4°	1994.4
5°	1966.2
6°	1934.3
7°	1897.6
8°	1858.6
9°	1818.2
10°	1781.1
11°	1745.4
12°	1712.0
13°	1681.4
14°	1653.2
15°	1625.5
16°	1597.3
17°	1570.1
18°	1541.9
19°	1514.1
20°	1487.4
21°	1459.6
22°	1432.8
23°	1404.6
24°	1375.0
25°	1342.1
26°	1306.0
27°	1266.0
28°	1221.8
29°	1172.5
30°	1118.5
32.5°	960.1
35°	764.6
37.5°	566.3
40°	400.9
42.5°	287.1
45°	212.9
47.5°	160.2
50°	118.4
52.5°	84.6
55°	60.2
57.5°	41.4
60°	27.3
62.5°	17.9
65°	11.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	8.0
70°	5.2
72.5°	3.3
75°	2.3
77.5°	1.4
80°	0.9
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0

(END OF REPORT)